

WHAT IS CLAIMED IS:

1. A lamination product comprising at least of an outermost layer, a paper base, a barrier layer, layered in this order, wherein the barrier layer is made of a coating film of a resin composition comprising a resin and an inorganic lamellar compound.
2. The lamination product according to Claim 1, wherein each layer of the inorganic lamellar compound has a size in the planar direction within the range of 3 to 5000 nm, in a state that the inorganic lamellar is subjected to completely delamination.
3. The lamination product according to Claim 1, wherein the thickness of each layer of the inorganic lamellar compound is not more than 10nm.
4. The lamination product according to Claim 1, wherein the aspect ratio of the inorganic lamellar compound is in the range of 30 to 50.
5. The lamination product according to Claim 1, wherein the cation exchange capacity of the inorganic lamellar compound is not less than 30 meq / 100g.
6. The lamination product according to Claim 1, wherein the layer surface of the inorganic lamellar compound has been chemical treated with an organic ammonium salt.
7. The lamination product according to Claim 1, wherein the inorganic lamellar compound comprises one or more of clayey minerals.
8. The lamination product according to Claim 1, wherein

the inorganic lamellar compound includes at least lamellar silicate.

9. The lamination product according to Claim 1, wherein the volume ratio of (inorganic lamellar compound / resin) in the resin composition is in the range of (5/95) to (40/60).

10. The lamination product according to Claim 1, wherein the resin which is the constituent of the resin composition for the barrier layer comprises a crystalline polyamide, or a blend of a crystalline polyamide and aliphatic polyamide.

11. The lamination product according to Claim 1, wherein the resin which is the constituent of the resin composition for the barrier layer comprises nylon MXD6 resin (N-MXD6) or a blend of N-MXD6 and an aliphatic polyamide.

12. The lamination product according to Claim 1, wherein the outermost layer comprises a polyolefin type resin having a heat-seal ability.

13. The lamination product according to Claim 1, wherein the paper base is that having a weighing in the range of 80 to 600 g/m².

14. The lamination product according to Claim 1, wherein the lamination product further comprises an innermost layer comprising a polyolefin type resin having a heat-seal ability.

15. The lamination product according to Claim 1, wherein the lamination product further comprises an innermost layer comprising an ethylene - α -olefin copolymer polymerized with a metallocene catalyst.

16. The lamination product according to Claim 1, wherein

the lamination product comprises an outermost layer of polyolefin type resin, a paper base, a barrier layer made of a coating film of a resin composition comprising a resin and an inorganic lamellar compound, an adhesive resin layer,
5 and an innermost layer of polyolefin type resin.

17. The lamination product according to Claim 1, wherein the lamination product comprises an outermost layer of polyolefin type resin, a paper base, a thermoplastic resin layer of polyolefin type resin, an adhesive resin layer, a
10 barrier layer made of a coating film of a resin composition comprising a resin and an inorganic lamellar compound, another adhesive resin layer, and an innermost layer of polyolefin type resin.

18. A carton for liquid which is manufactured by using a
15 lamination product which comprises at least of an outermost layer, a paper base and a barrier layer, layered in this order, wherein the barrier layer is made of a coating film of a resin composition comprising a resin and an inorganic lamellar compound, and subjecting the lamination product to
20 box-forming.

19. The carton for liquid according to Claim 16, wherein each layer of the inorganic lamellar compound has a size in the planar direction within the range of 3 to 5000 nm, in a state that the inorganic lamellar is subjected to completely
25 delamination.

20. The carton for liquid according to Claim 18, wherein the thickness of each layer of the inorganic lamellar compound

is not more than 10nm.

21. The carton for liquid according to Claim 18, wherein the aspect ratio of the inorganic lamellar compound is in the range of 30 to 50.

5 22. The carton for liquid according to Claim 18, wherein the cation exchange capacity of the inorganic lamellar compound is not less than 30 meq / 100g.

23. The carton for liquid according to Claim 18, wherein the layer surface of the inorganic lamellar compound has been
10 chemical treated with an organic ammonium salt.

24. The carton for liquid according to Claim 18, wherein the inorganic lamellar compound comprises one or more of clayey minerals.

25. The carton for liquid according to Claim 18, wherein
15 the inorganic lamellar compound includes at least lamellar silicate.

26. The carton for liquid according to Claim 18, wherein the volume ratio of (inorganic lamellar compound / resin) in the resin composition is in the range of (5/95) to (40/60).

20 27. The carton for liquid according to Claim 18, wherein the resin which is the constituent of the resin composition for the barrier layer comprises a crystalline polyamide, or a blend of a crystalline polyamide and aliphatic polyamide.

28. The carton for liquid according to Claim 18, wherein
25 the resin which is the constituent of the resin composition for the barrier layer comprises nylon MXD6 resin (N-MXD6) or a blend of N-MXD6 and an aliphatic polyamide.

29. The carton for liquid according to Claim 18, wherein the outermost layer comprises a polyolefin type resin having a heat-seal ability.

30. The carton for liquid according to Claim 18, wherein
5 the paper base is that having a weighing in the range of 80 to 600 g/m².

31. The carton for liquid according to Claim 18, wherein the lamination product further comprises an innermost layer comprising a polyolefin type resin having a heat-seal ability.

10 32. The carton for liquid according to Claim 18, wherein the lamination product further comprises an innermost layer comprising an ethylene - α -olefin copolymer polymerized with a metallocene catalyst.

33. The carton for liquid according to Claim 18, wherein
15 the lamination product comprises an outermost layer of polyolefin type resin, a paper base, a barrier layer made of a coating film of a resin composition comprising a resin and an inorganic lamellar compound, an adhesive resin layer, and an innermost layer of polyolefin type resin.

20 34. The carton for liquid according to Claim 18, wherein the lamination product comprises an outermost layer of polyolefin type resin, a paper base, a thermoplastic resin layer of polyolefin type resin, an adhesive resin layer, a barrier layer made of a coating film of a resin composition
25 comprising a resin and an inorganic lamellar compound, another adhesive resin layer, and an innermost layer of polyolefin type resin.